

# **SYSTEM AND METHOD FOR MIXING WATER AND NON-AQUEOUS MATERIALS USING MEASURED WATER CONCENTRATION TO CONTROL ADDITION OF INGREDIENTS**

## **ABSTRACT**

The present invention is directed to a system and method for mixing a fluid comprising water and at least one non-aqueous material. The system comprises a mixing tub and mixing head adapted to inject the fluid into the mixing tub. It also includes a plurality of lines connected to the mixing head that supply the mixing head with water and the at least one non-aqueous material and a recirculation circuit that delivers the fluid from the mixing tub back to the mixing head. The system further includes a sensor connected to the recirculation circuit that measures the concentration of water in the fluid. An automatic controller uses the concentration measurement data to control the amount of each of the ingredients injected into the mixing tub.